



U.S. Department of Energy  
Energy Efficiency and Renewable Energy

# Meeting the Federal Agencies' Renewable Energy Goal

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# Session Objective

- Improve understanding between Renewable Energy marketers and Federal agencies
- The Federal agencies have a Renewable energy goal to reach by 2005
- You have renewable energy Products
- Federal agencies have bought more than 295 Gigawatt hours of Renewable Power or Tags – it can be done
- Avoid frustration - understand how Federal agencies purchase renewable power or tags



# What is FEMP?

- Federal Energy Management Program (FEMP)- Part of Energy Efficiency and Renewable Energy (EERE) at Department of Energy (DOE)
- ***Lead by Example.*** FEMP works to increase energy security and reduce the cost and environmental impact of Government



# What is FEMP?

- FEMP accomplishes its mission by:
  - advancing energy efficiency and water conservation
  - promoting the use of renewable and distributed energy, and
  - improving utility management decisions at Federal sites.



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# FEMP wants Agencies to Meet the Goal

- FEMP is starting an outreach effort to encourage Federal agencies to meet the Renewable Goal by September 2005:
  - Renewable Power is an important strategy for agencies
  - We will get the message out – Spring 2004
  - Focus in Western States and MidAtlantic Region
  - Be ready!



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# Federal Renewable Energy Goal

**Goal** – 1384 GWh - Equivalent of 2.5% of Federal facility electricity use by 2005

- ❖ equals about 500 MW of wind (at 31% Capacity Factor)

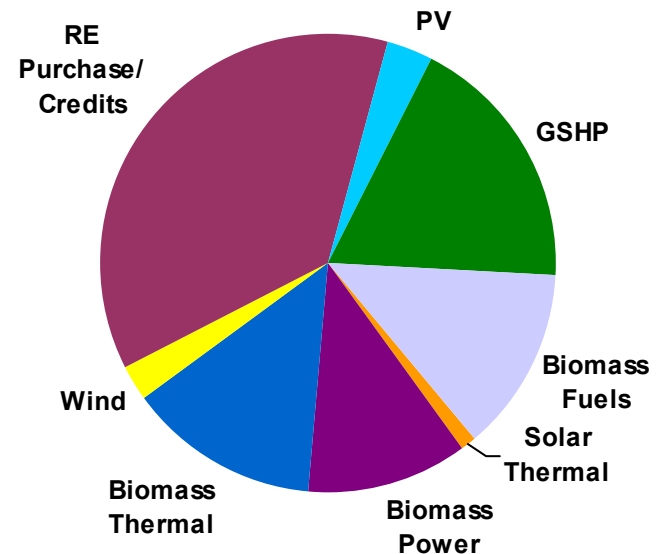
June 2000	173 GWh
<u>Current (9/30/03):</u>	<u>800 GWh</u>
To Go:	584 GWh



# Where We Are: Federal Renewable Technologies and Purchases 1990- Sept. 2003

Solar Thermal	8.70	GWh
Biomass Power	92.44	GWh
Biomass Thermal	108.44	GWh
Wind	18.83	GWh
RE Purchase/Credits	294.99	GWh
Photovoltaics (PV)	24.71	GWh
Ground Source Heat Pump	148.14	GWh
Biomass Fuels	103.99	GWh
<b>TOTAL</b>	<b>800.26</b>	<b>GWh</b>

## Technologies





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# Federal Renewable Energy Definition

- Executive Order 13123 governs now for Federal agency purchases.
  - Renewable Energy is Biomass, Geothermal, Solar, and Wind
  - Projects or Purchases in place in 1990 or after
- Definition can be different from State or Green-E definitions – we use the term Renewable Power
- Definition likely to change when or if Energy Bill legislation passes





# How Federal Agencies Buy Renewable Power

- Renewable Power purchased under 3 kinds of rules
  - Competitive Request for Proposals or modifications to competitively awarded contracts in deregulated states
    - Usually part of overall power solicitations
  - Utility Green Pricing Plans in regulated states
  - Stand Alone Renewable Energy Certificates (Green Tags) purchases
    - Work to do with budget and legal folks
    - Competitive acquisition rules apply



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# How Federal Agencies Buy Renewable Power

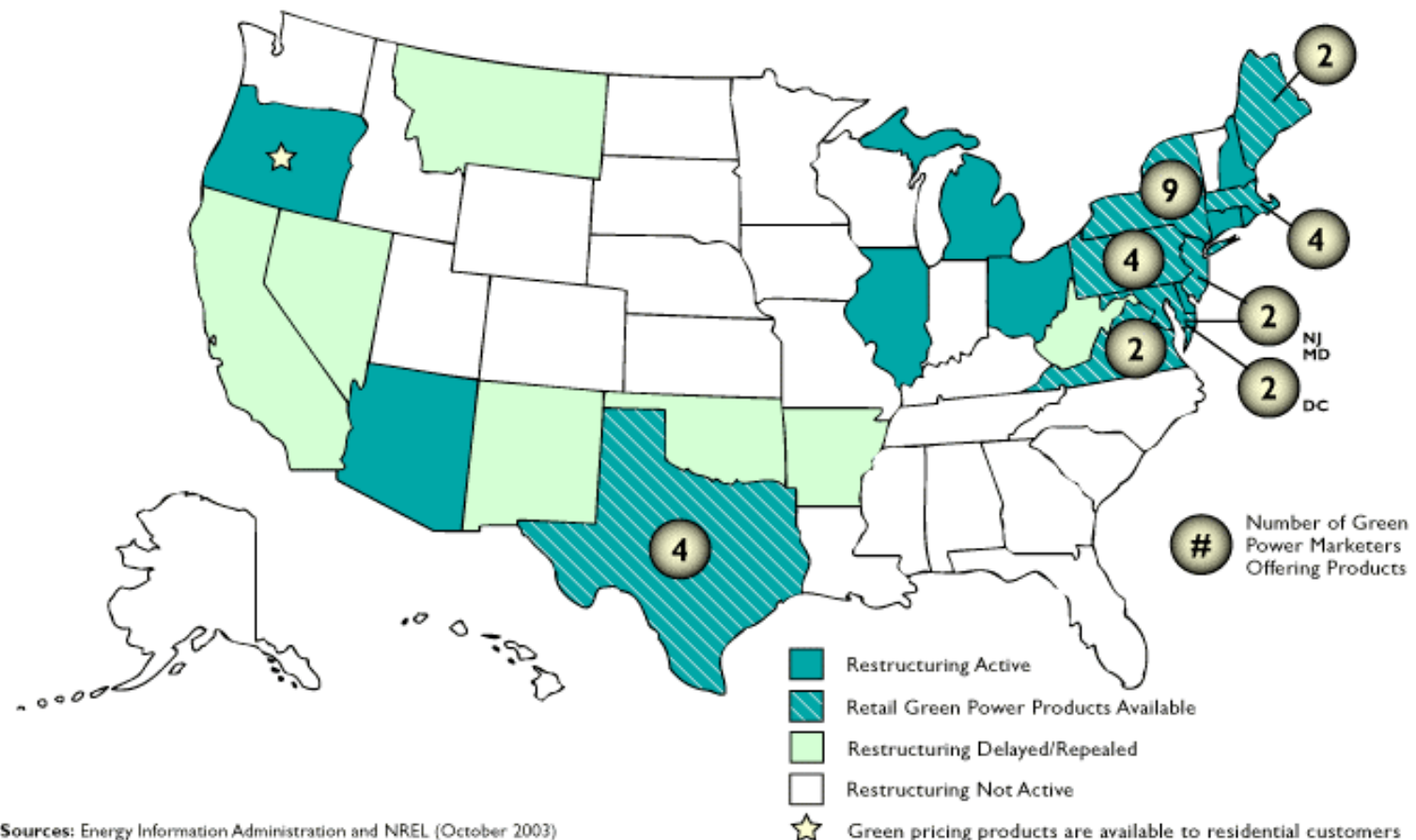
- Federal Agencies set requirements
- Usually General Services Administration (GSA) or Defense Energy Support Center (DESC) execute purchases – due to their experience and authority to buy electricity



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# Competitive Renewable Power

## Green Power Marketing Activity in Competitive Electricity Markets

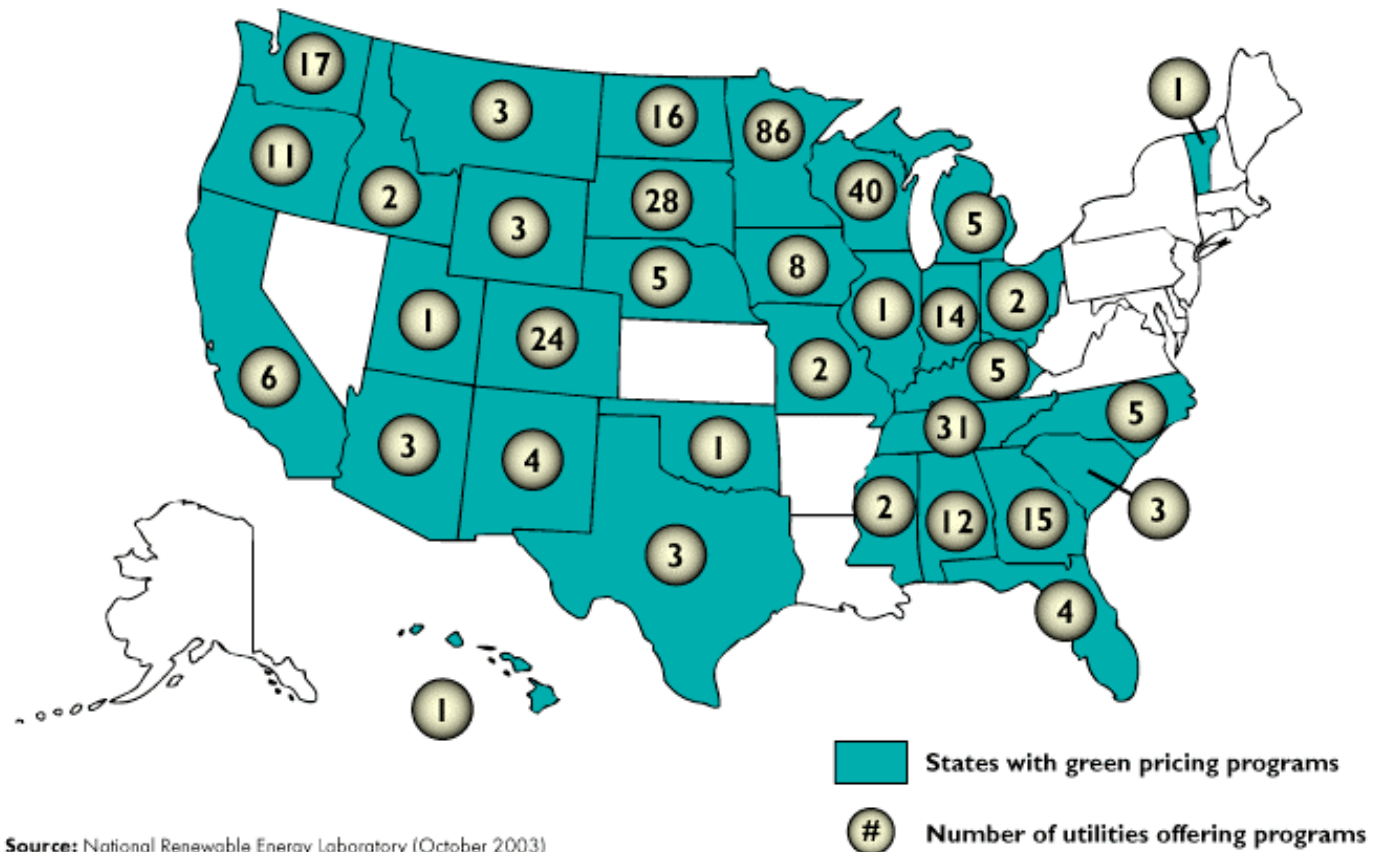




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# Green Pricing Activity

## Utility Green Pricing Activities





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# Federal Contacts

- Websites:
- FEMP - <http://www.eere.energy.gov/femp/>
- GSA – <http://www.fedbizops.gov>
- DESC- <http://www.desc.dla.mil/DCM/DCMPPage.asp?pageid=177>
- Defense Energy Supply Center (DESC)– John Nelson – (703) 767-8523
- General Services Administration (GSA)
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